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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/711.655	11/13/2000	Michael A. Freeman	1894-00501	7877	
23505	7590 05/06/2003			11)	
CONLEY ROSE, P.C.			EXAMINER		
P. O. BOX 3 Houston,	267 TX 77253-3267		TUCKER,	PHILIP C	
			ART UNIT	PAPER NUMBER	
			1712		
			DATE MAIL ED: 05/06/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	711655	I F	CEEMAN	
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-The MAILING DATE of this communication app	ears on the cover she	et beneath the d	correspondence addre	?ss
Period for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.	r to expire 3	MONTH(S) FROM THE MAILING	G DATE
 Extensions of time may be available under the provisions of 37 CF from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, such period shall, by defa Failure to reply within the set or extended period for reply will, by s 	a reply within the statutory mult, expire SIX (6) MONTHS	inimum of thirty (30 from the mailing da) days will be considered tinate of this communication.	
Status				
Responsive to communication(s) filed on 2/2	1/03			
☐ This action is FINAL .	7			·
Since this application is in condition for allowance exce accordance with the practice under Ex parte Quayle, 1			o the merits is closed	in
Disposition of Claims				
\bigcirc Claim(s) 1 - 17, 19-27, 30-37,	39-49, 86-	29 is/are	pending in the applicat	ion.
Of the above claim(s)			withdrawn from consid	
Of the above claim(s)		is/are	withdrawn from consid	
% Claim(s) 102, 121		is/are	allowed.	
% Claim(s) 102, 121		is/are	allowed.	
% Claim(s) 102, 121 % Claim(s) 1-17, 19-27, 30-37, 39-49, 8	(6-101,103-120,1)	is/are	allowed.	
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Art Unit: 1712

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 2. Claims 1-17,19-27, 30-37, 39-49, 86-101, 103-120, 122-129 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicants specification fails to teach that the triggering signal is other than pressure of mechanically crushing by closing fractures or osmotic pressure. A negative limitation which appears in the claims and not in the specification introduces new matter (Ex parte Grasselli 231 USPQ 393).

In claim 106, the solid being a perforated gun holder is also not taught in the specification.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-5, 20, 21, 34-37, 39, 40, 43, 44, 46, 47, 86-90, 93, 95-100, 104, 105, 107, 108, 110, 112, 114, 115, 125, 127-129 are rejected under 35 U.S.C. 102(b) as being anticipated by Tjon-Joe-Pin (5806597).

Tjon-Joe-Pin teaches a well treatment fluid which comprises a polymer and a sequestered enzyme, wherein the enzyme is surrounded by a complex including a polymer and crosslinker.

Upon a change in pH and temperature, the enzyme in the complex becomes active and breaks the polymer (column 2, lines 38-58). The used polymer or filter cake would be considered a contaminant in the wellbore. The intended use of the fluid as a drilling fluid does not distinguish in claims such as 1 and 3, in which a specific drilling step is not specifically disclosed.

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 20, 31-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tjon-Joe-Pin (5806597).

Tjon-Joe-Pin teaches a well treatment fluid which comprises a polymer and a sequestered enzyme, wherein the enzyme is surrounded by a complex including a polymer and crosslinker.

Upon a change in pH and temperature, the enzyme in the complex becomes active and breaks the polymer (column 2, lines 38-58). Tjon-Joe-Pin differs from the present invention in that the specific enzymes of claims 31-33 are not disclosed. However, it would be obvious to one of ordinary skill in the art to utilize enzymes within the scope of claims 31-33, given the teaching of Tjon-Joe -Pin that Guar and cellulose specific enzymes may be utilized as the breaker of the complex therein (column 2, lines 15-17).

7. Claims 102 and 121 are allowable over the art of record.

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8. Applicants amendment distinguishes over the prior art of Gupta, however such introduces

Applicants amendment distinguishes over the prior art of Gupta, nowever such introduces new matter into the claims. Applicants arguments with respect to claim 46 are not deemed persuasive. The contaminant arising from, the subterranean formation does not mean that such originates from such formation. Furthermore the filtercake would include particulates which originate from the subterranean formation. A new rejection is presented in view of Tjon-Joe-Pin.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip Tucker whose telephone number is (703) 308-0529. The examiner's normal working hours are 7:30am-4:00pm, Monday-Friday. If necessary SPE Robert Dawson may be contacted at 703-308-2340. For inquiries of a general nature call the receptionist at 703-308-0651. The group FAX no. is 703-872-9310. The **after final** fax no. Is 703-872-9311.

PCT-2799 May 3, 2003

PHILIP C. TUCKER ART UNIT 1712